

Title (en)
TISSUE RESECTING INSTRUMENT

Title (de)
GEWEBERESEKTIONSINSTRUMENT

Title (fr)
INSTRUMENT DE RÉSECTION DE TISSUS

Publication
EP 3831320 A1 20210609 (EN)

Application
EP 20211955 A 20201204

Priority
US 201916704066 A 20191205

Abstract (en)
A tissue-resecting end effector includes an outer shaft having a hub housing, an inner shaft including a sun gear, and a drive assembly disposed within the hub housing. The drive assembly includes a first and second drivers disposed about the inner shaft distally and proximally of the sun gear, respectively. The drive assembly further includes a plurality of planetary gears radially disposed about and in meshed engagement with the sun gear between the drivers, and a locking clip proximal of the planetary gears and the sun gear, rotationally keyed to the second driver, and engaged with the first driver via at least one snap-fit engagement. The locking clip retains the drivers and the planetary gears in operable engagement with one another and the sun gear such that a rotational input provided to the second driver drives rotation of the inner shaft.

IPC 8 full level
A61B 17/32 (2006.01); **A61F 9/007** (2006.01)

CPC (source: EP US)
A61B 17/32002 (2013.01 - EP US); **A61B 34/37** (2016.02 - US); **A61B 2017/0023** (2013.01 - US); **A61B 2017/00424** (2013.01 - US); **A61B 2017/0046** (2013.01 - US); **A61B 2017/00477** (2013.01 - US); **A61B 2017/00734** (2013.01 - US); **A61B 2017/320028** (2013.01 - EP US); **A61B 2017/4216** (2013.01 - EP); **A61B 2217/005** (2013.01 - US)

Citation (search report)
• [A] EP 3275381 A1 20180131 - COVIDIEN LP [US]
• [A] US 2019008541 A1 20190110 - NORTON JEFFREY [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3831320 A1 20210609; **EP 3831320 B1 20230510**; AU 2020250272 A1 20210624; CA 3101572 A1 20210605; JP 2021087767 A 20210610; US 11179172 B2 20211123; US 11980382 B2 20240514; US 2021169512 A1 20210610; US 2022061875 A1 20220303

DOCDB simple family (application)
EP 20211955 A 20201204; AU 2020250272 A 20201008; CA 3101572 A 20201203; JP 2020179498 A 20201027; US 201916704066 A 20191205; US 202117521642 A 20211108